

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/04893

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12P7/26 C12N9/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12P C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WADA M ET AL: "PURIFICATION AND CHARACTERIZATION OF MONOVALENT CATION-ACTIVATED LEVODIONE REDUCTASE FROM CORYNEBACTERIUM AQUATICUM M-13" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, no. 10, October 1999 (1999-10), pages 4399-4403, XP000910999 ISSN: 0099-2240 page 4401, left-hand column, paragraph 3 -right-hand column, paragraph 3; figure 1; tables 1,3	1-13
A	EP 1 122 315 A (HOFFMANN LA ROCHE) 8 August 2001 (2001-08-08) the whole document	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

18 September 2003

Date of mailing of the international search report

26/09/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Smalt, R

# INTERNATIONAL SEARCH REPORT

inal Application No

PCT/EP 03/04893

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 982 406 A (HOFFMANN LA ROCHE) 1 March 2000 (2000-03-01) the whole document	
P, X	WADA M ET AL: "PRODUCTION OF A DOUBLY CHIRAL COMPOUND, (4R,6R)-4-HYDROXY-2,2,6-TRIME THYLCYCLOHEXANONE, BY TWO-STEP ENZYMATIC ASYMMETRIC REDUCTION" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 69, no. 2, February 2003 (2003-02), pages 933-937, XP009011700 ISSN: 0099-2240 page 936, left-hand column, paragraph 3; figure 1	1-13
P, X	KATAOKA M ET AL: "OLD YELLOW ENZYME FROM CANDIDA MACEDONIENSIS CATALYZES THE STEREOSPECIFIC REDUCTION OF THE C = C BOND OF KETOISOPHORONE" BIOSCIENCE, BIOTECHNOLOGY AND BIOCHEMISTRY, XX, XX, vol. 66, no. 12, December 2002 (2002-12), pages 2651-2657, XP009011699 ISSN: 0916-8451 page 2651, right-hand column, paragraph 1; figure 1	1,2,12, 13

## INTERNATIONAL SEARCH REPORT

onal Application No

PCT/EP 03/04893

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1122315	A	08-08-2001	EP 1122315 A1	08-08-2001
			BR 0100232 A	19-03-2002
			CA 2330023 A1	01-08-2001
			CN 1316517 A	10-10-2001
			JP 2001231586 A	28-08-2001
			US 2003138921 A1	24-07-2003
			US 2002187537 A1	12-12-2002
<hr/>				
EP 0982406	A	01-03-2000	EP 0982406 A2	01-03-2000
			AU 753590 B2	24-10-2002
			AU 4455399 A	09-03-2000
			BR 9903739 A	17-10-2000
			CN 1254760 A	31-05-2000
			JP 2000069986 A	07-03-2000
			KR 2000017373 A	25-03-2000
			NO 993987 A	21-02-2000
			US 6444460 B1	03-09-2002
<hr/>				